

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

PPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/026,055		12/20/2001	Ralph H. Johnson	V637-01520 US	V637-01520 US 8713	
128	7590	08/27/2003			•	
		ERNATIONAL II	EXAMINER			
F O BOX 2243					TUAN M	
MORRISTO	OWN, NJ	07962-2245		ART UNIT	PAPER NUMBER	
				2828		
			·	DATE MAILED: 08/27/2003	DATE MAILED: 08/27/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

,-t	<u> </u>		BUS				
	Application No.	Applicant(s)					
Advisory Action	10/026,055	JOHNSON, RALPH	Н.				
,	Examiner	Art Unit					
	Tuan M. Nguyen	2828					
The MAILING DATE of this communication appe	ears on the cover sheet with the c	orrespondence add	ress				
THE REPLY FILED 07 August 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.							
PERIOD FOR RE	PLY [check either a) or b)]						
a) The period for reply expires 3 months from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension see have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension see under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if imely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFF							
2. The proposed amendment(s) will not be entered be	ecause:						
(a) ☑ they raise new issues that would require further consideration and/or search (see NOTE below);							
(b) they raise the issue of new matter (see Note below);							
(c) ☑ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or							
(d) they present additional claims without canceli	ng a corresponding number of fi	nally rejected claim	s.				
NOTE: See Continuation Sheet.							
3. Applicant's reply has overcome the following reject	tion(s):						
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a se	parate, timely filed	amendment				
5.☐ The a)☐ affidavit, b)☐ exhibit, or c)☐ request for application in condition for allowance because:		dered but does NO	T place the				
6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.	ause it is not directed SOLELY to	o issues which were	e newly				
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we			and an				
The status of the claim(s) is (or will be) as follows:			•				
Claim(s) allowed:							
Claim(s) objected to:							
Claim(s) rejected: 1-6.							
Claim(s) withdrawn from consideration:							
8. The proposed drawing correction filed on is	a)☐ approved or b)☐ disapp	roved by the Exami	ner.				
9. ☐ Note the attached Information Disclosure Statemer	nt(s)(PTO-1449) Paper No(s)		=				

Paul Ip SPE

Art Unit: 2828

10. Other: ____



Continuation of 2. NOTE: The amendment after final filed on 8/7/2003 raises new issues said "depth is defined as the difference between a valence band offset and a conductin band offset". Figure 2b shows the quantum well thickness between 10 to 100 in terms of meV including 40 meV. Figure 3 shows InGaAs quantum wells on GaAs, GaAs barrier layers, note col. 16 line 33, AlGaAs barrier, note col. 29 line 45 and quantum well comprised of InGaAs, note col. 25 line 31, the barriers or confining layers 54' and 70' comprising of GaAs are disposed on either side of quantum well 126', 128', see figure 9b. The claims recite alternative substitution elements such as N, Al, In, Sb with the basic semiconductor material GaAs. Since it has been held to be within the general skill of a worker in the art to select a known material on the basic of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.